

# SPARTAN

## HIGH POWER FLOOD



### LED Zone 2 High Power Flood

The SPARTAN High Power Flood is designed for hazardous environments which require high performance, high reliability, White-Light illumination. Specifically, the High Power Flood has been designed to light up large, open areas such as an Offshore Oil Rig. The dedicated bracket allows the beam angle to be tilted and easily targeted into the required space.

Using Raytec's field-proven, long-life LED technology SPARTAN luminaires are ATEX and IEC Ex approved for all Zone 2 applications.

SPARTAN High Power Flood has been designed with maintenance in mind. A unique modular design allows key components to be easily accessed and serviced if required, making inspection and maintenance quicker and easier. It also allows for the most flexible installation.

SPARTAN High Power Flood is available in a range of different beam patterns, delivering the ultimate flexibility to specifiers, distributors and end users.

SPARTAN uses **COOLEXTRUDE™** thermal management technology, ensuring a much cooler LED operating temperature and up to 60% better heat dissipation compared to traditional lighting solutions, allowing the product to operate for > 10 years while still delivering a high lumen output of up to 25,000 lumens.

### Key Features

- ATEX and IEC Ex – Zone 2
- Ultra long life LED
- High lumen output LED
- Easy installation, maintenance and inspection
- Extreme durability and toughness
- Wide operating temperature range of -50° to +50°C
- 0-10V Dimming as standard
- DALI Compatible
- 5 year warranty

### Why Raytec

- UK Designed & Manufactured
- Manufacturing precision engineered LED products
- Worldwide distributor support
- Lighting design and full technical support
- ISO9001 and ISO140001 accredited
- Award Winning Technology

Distributed by



## Extended Features

### Ultra-Powerful

High lumen output - up to 25,000 lumens  
Latest high power LED technology

### Ultra-Flexible

Range of beam patterns available  
Operating temperature range of -50°C to + 50°C with a T4 rating for even the most challenging conditions

### Ultra-Reliable

Industry leading 5 year warranty  
Designed and manufactured in the UK to the highest standards including both ISO9001 & ISO14001  
Advanced electronics and LED's protected by vibration resistant and water proof potting compound  
Extreme durability and toughness

### Ultra-Modular

Both the LED and PSU modules are easily accessible for maintenance and inspection

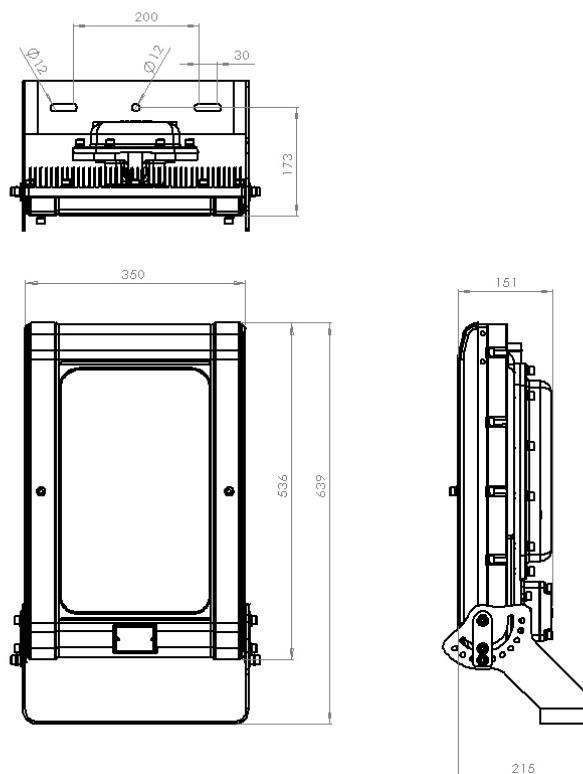
### Ultra-Efficient

**COOLEXTRUDE™** thermal management delivers class leading energy efficiency  
Significant running and maintenance savings compared to traditional lighting technologies  
SMART access wiring system for safe and efficient installation, set-up and ongoing inspection

### Ultra-Support

Photometric files available (.ies & .ldt)  
Full Lighting Design Service  
Site specific Energy and Cost Saving Report available

## Product Dimensions



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# Technical Specifications

## Certification

ATEX Rating: ATEX and IEC Ex rated for Gas and Dust  
 Hazardous Area rating: Zone 2 – Gas and Dust  
 Certificates: CML 17ATEX4149X AND IEC Ex CML 17.007 4X  
 Gas: II 3 GD Ex ec nR op is IIC  
 T4 G c -50°C TO +50°C  
 Dust: Ex tc op is IIIC T104°C Dc -50°C TO +50°C  
 IP66 - M20 ENTRY - 150V to 264V AC/DC

## Electrical

Input: 110-254V 50/60Hz AC only  
 Power: 150-300W  
 Termination: Incoming terminal block suitable for looping 4 core 4mm<sup>2</sup> cable  
 Power Factor: >0.95  
 Cable entries: 2xM20 as standard (other entries available upon request), dispatched complete with one ATEX/ IEC Ex approved blanking plug

## Optical

Beam Patterns-circular: 30°x 30° or 50°x 50° or 90°x 90°  
 Lumen output on mains: Up to 25,000 lumens  
 LED type: Platinum Elite SMT LEDs  
 Number of LEDs: 12 or 24  
 CRI: 70+  
 Colour Temperature: 6,000K, 5,000K and 4,000K

## Mechanical/Environmental

Burning position: Universal  
 IP rating: IP66  
 Temperature range: 50°C to +50°C  
 Weight: 23.5kg (51.8lbs)  
 Enclosure: Marine grade aluminium epoxy powder coated, toughened glass, all external fasteners and brackets are marine grade stainless steel  
 Unit Colour: Grey (RAL 7012)  
 Installation instructions: Please contact Raytec for copy  
 Dimensions: 639 x 350 x 215mm (25.2 x 13.8 x 8.5")  
 Mounting: U bracket (see dimension drawings on Page 2)

Part Codes (Select beam pattern below to replace 'XXXX')	Description (T4 variants as standard)
SPZ-HPFL25K-W-XXXX	SPARTAN High Power Flood, Zone 2, White-Light
SPZ-HPFL20K-W-XXXX	SPARTAN High Power Flood, Zone 2, White-Light
SPZ-HPFL15K-W-XXXX	SPARTAN High Power Flood, Zone 2, White-Light
SPZ-HPFL10K-W-XXXX	SPARTAN High Power Flood, Zone 2, White-Light

Add -C1D2 to part code for North American standards

For options fitted with photocell add '-PC' to the above codes  
 For low voltage options add '-LV' to the above codes  
 Contact Raytec for T5 and T6 variants

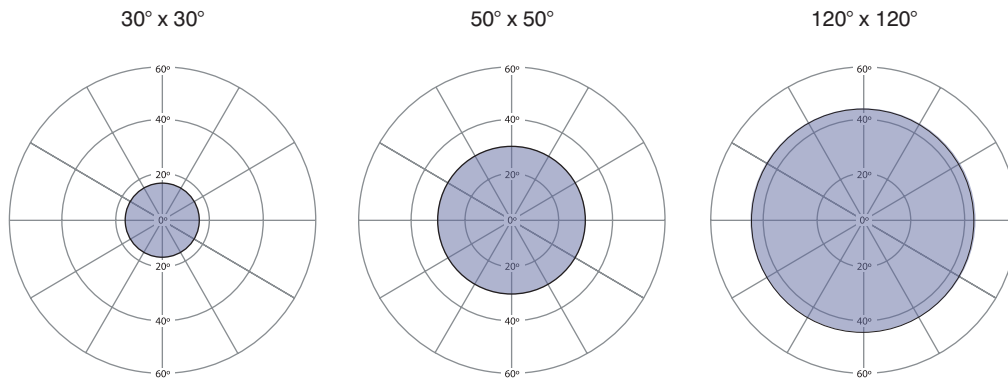
Beam Patterns	Description
3030	Circular beam pattern, 30° x 30° beam
5050	Circular beam pattern, 50° x 50° beam
9090	Circular beam pattern, 90° x 90° beam

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All Raytec luminaires are provided with an industry leading 5 year warranty and have an expected useful life in excess of 10 years

## Beam patterns - Circular



## Other Products in the SPARTAN Family

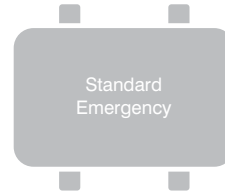
SPARTAN Flood 24



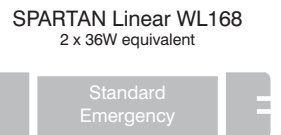
SPARTAN Flood 48



SPARTAN Bulkhead 24



SPARTAN Linear WL84  
2 x 18W equivalent



Distributed by



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